

## INTERNATIONAL SEARCH REPORT

International Application No  
 PCT/EP2004/008981

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 G01R15/18 G01R15/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| A          | WO 02/071081 A (VACUUMSCHMELZE GMBH & CO<br>KG ;SCHAEFER STEFAN (DE))<br>12 September 2002 (2002-09-12)<br>abstract; figure 1<br>page 6, line 10 - page 7, line 2<br>page 9, line 15 - line 22 | 1                     |
| A          | WO 99/01773 A (LEM LIAISONS ELECTRON MEC<br>;CATTANEO FREDERIC (FR); CATTANEO PIERRE)<br>14 January 1999 (1999-01-14)<br>abstract; claims 1,6; figure 2  | 1                     |
| A          | EP 0 580 473 A (ABB CONTROL SA)<br>26 January 1994 (1994-01-26)<br>abstract<br>page 1, line 3 - page 2, line 20  | 1                     |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

EP2004/008981

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---|---------------------|----------------------------|---------------------|
| WO 02071081                               | A | 12-09-2002          | DE 10110475 A1             | 26-09-2002          |
|   |   |                     | WO 02071081 A1             | 12-09-2002          |
|   |   |                     | EP 1366371 A1              | 03-12-2003          |
|   |   |                     | JP 2004523909 T            | 05-08-2004          |
|   |   |                     | US 2004140879 A1           | 22-07-2004          |
| WO 9901773                                | A | 14-01-1999          | CH 692161 A5               | 28-02-2002          |
|   |   |                     | WO 9901773 A1              | 14-01-1999          |
|   |   |                     | CN 1261959 T               | 02-08-2000          |
|   |   |                     | DE 69807881 D1             | 17-10-2002          |
|   |   |                     | DE 69807881 T2             | 22-05-2003          |
|   |   |                     | EP 0991950 A1              | 12-04-2000          |
|   |   |                     | JP 2002508846 T            | 19-03-2002          |
|   |   |                     | US 6323636 B1              | 27-11-2001          |
| EP 0580473                                | A | 26-01-1994          | FR 2693831 A1              | 21-01-1994          |
|   |   |                     | DE 69307965 D1             | 20-03-1997          |
|   |   |                     | DE 69307965 T2             | 26-06-1997          |
|   |   |                     | EP 0580473 A1              | 26-01-1994          |